

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: November 4, 2002, 02:00:40 ; Search time 11.0026 Seconds  
(without alignments)  
510.521 Million cell updates/sec

Title: US-09-805-550-2

Perfect score: 2036

Sequence: 1 MRLNVTIKGTNFIEASPD.....EELTANYLLDHGFEEDDQOQ 405

Scoring table:

BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 90412 seqs, 13869272 residues

Total number of hits satisfying chosen parameters: 90412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published\_Applications\_AA.\*

1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/PCT05\_PUBCOMB.pep.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Length	ID	Description
1	2036	100.0	405	US-09-805-550-2
2	900.5	44.2	368	US-09-805-550-4
3	146	7.2	681	US-09-815-242-11830
4	140	6.9	2441	US-10-109-886-8
5	136	6.7	655	US-10-001-632A-2
6	133.5	6.6	2442	US-10-109-886-10
7	129	6.3	63	US-09-925-299-1544
8	128.5	6.3	550	US-10-023-523-47
9	126.5	6.2	826	US-09-894-998-47
10	126.5	6.2	2472	US-09-815-242-5064
11	125	6.1	538	US-10-023-523-43
12	125	6.1	538	US-10-023-523-43
13	123.5	6.1	600	US-09-287-849-22
14	123.5	6.0	1367	US-09-801-368-108
15	122.5	6.0	118	US-10-078-929-30
16	122	5.9	796	US-10-044-205A-31
17	120.5	5.9	802	US-09-287-849-10
18	119.5	5.8	132	US-10-078-929-22
19	118	5.8	12	US-10-078-929-22

20	118	5.8	132	12	US-10-078-929-198	Sequence 198, App
21	118	5.8	595	10	US-09-826-212-9	Sequence 9, Appl
22	118	5.8	595	10	US-09-935-727-11	Sequence 11, Appl
23	118	5.8	2783	10	US-09-816-669A-14	Sequence 14, Appl
24	117	5.7	2368	10	US-09-815-242-5635	Sequence 5635, Ap
25	117	5.7	2368	10	US-09-815-242-12389	Sequence 12389, A
26	116	5.7	383	10	US-09-788-345-10	Sequence 10, Appl
27	116	5.7	412	10	US-09-788-345-12	Sequence 12, Appl
28	116	5.7	595	10	US-09-921-667-6	Sequence 6, Appl
29	115.5	5.7	723	12	US-10-044-205A-32	Sequence 32, Appl
30	115.5	5.7	744	10	US-09-815-242-5143	Sequence 5143, Ap
31	115.5	5.7	2478	10	US-09-815-242-5816	Sequence 5816, Ap
32	115.5	5.7	2478	10	US-09-815-242-12967	Sequence 12967, A
33	114	5.6	596	10	US-09-287-849-26	Sequence 26, Appl
34	113.5	5.6	1070	10	US-09-735-367B-6	Sequence 6, Appl
35	113.5	5.6	2005	10	US-09-735-367B-3	Sequence 3, Appl
36	113.5	5.6	2063	10	US-09-735-367B-2	Sequence 2, Appl
37	113	5.6	729	10	US-09-287-849-2	Sequence 2, Appl
38	111.5	5.5	3739	10	US-09-861-289-33	Sequence 33, Appl
39	111.5	5.5	11877	10	US-09-861-289-6	Sequence 6, Appl
40	111	5.5	1329	10	US-09-815-242-10112	Sequence 10112, A
41	110.5	5.4	578	10	US-09-159-469-50	Sequence 50, Appl
42	110.5	5.4	578	10	US-09-798-042-50	Sequence 104, App
43	109	5.4	537	10	US-09-888-615-104	Sequence 341, App
44	109	5.4	654	10	US-09-841-132-341	Sequence 3, Appl
45	109	5.4	1084	12	US-10-071-900-3	

#### ALIGNMENTS

RESULT 1  
US-09-805-550-2  
Sequence 2, Application US/09805550  
; Patient No. US20020026045A1  
; GENERAL INFORMATION: Manojan, Pramod B.  
; APPLICANT: Tagilani, Laura  
; TITLE OF INVENTION: Rad23 Genes and Uses Thereof  
; FILE REFERENCE: 0964D  
; CURRENT APPLICATION NUMBER: US/09/805,550  
; CURRENT FILING DATE: 2001-03-13  
; PRIOR APPLICATION NUMBER: 09/413,574  
; PRIOR FILING DATE: 1999-10-06  
; PRIOR APPLICATION NUMBER: 60/109,728  
; PRIOR FILING DATE: 1998-11-23  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 405  
; TYPE: PRT  
; ORGANISM: Zea mays  
US-09-805-550-2

Query Match 100.0%; Score 2036; DB 10; Length 405;  
Best Local Similarity 100.0%; Pred. No. 2, 1e-144;  
Matches 405; Conservative 0; Mismatches 0; Indels 0; Caps 0;  
QY 1 MRLNVTIKGTNFIEASPDASVADVKKRIETTGQSGSTRADQOMLIYOGKILNDETLE 60  
Db 1 MRLNVTIKGTNFIEASPDASVADVKKRIETTGQSGSTRADQOMLIYOGKILNDETLE 60  
QY 61 SNGVAENFVLYIMLSKAKASSGASTATYAKAPTLAOPAPVAPVAPASVATPTQAPVAT 120  
Db 61 SNGVAENFVLYIMLSKAKASSGASTATYAKAPTLAOPAPVAPVAPASVATPTQAPVAT 120  
QY 121 AETAPPSVQPPAAPATVATDDADVYSQAASNLVFGNNLEQTTIOQIILDMGGTWERDVT 180  
Db 121 AETAPPSVQPPAAPATVATDDADVYSQAASNLVFGNNLEQTTIOQIILDMGGTWERDVT 180  
QY 181 VRAIRAAANNRERADYISGIPENVEAOPVARRAPAAQOQINQOAAASRAQAVPALPVQPS 240  
Db 181 VRAIRAAANNRERADYISGIPENVEAOPVARRAPAAQOQINQOAAASRAQAVPALPVQPS 240

QY	241	PASGPNANPNTLEPGCVPSGSGSPGVPGAGSGALDALQLPQFOALQLYOANPQILQ	300
Db	241	PASGPNANPNTLEPGCVPSGSGSPGVPGAGSGALDALQLPQFOALQLYOANPQILQ	3000
QY	301	PMLOELKONPQILRLIQEONDAEFLRLVYNESPESGPGGNTLGGUAAAVPOTLTVPPEERE	360
Db	301	PMLOELKONPQILRLIQEONDAEFLRLVYNESPESGPGGNTLGGUAAAVPOTLTVPPEERE	3600
QY	361	AIQRLBGMGFNRELVEVFFACNKDEBELTANYLLDHHGEFFDQOQ	405
Db	361	AIQRLBGMGFNRELVEVFFACNKDEBELTANYLLDHHGEFFDQOQ	405

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RESULT 2
US-09-805-550-4
: Sequence 4, Application US/09805550
: Patent No. US20020026045A1
:
: GENERAL INFORMATION:
: APPLICANT: Mahajan, Pramod B.
: APPLICANT: Taghianl, Laura
: TITLE OF INVENTION: Rad23 Genes and Uses Thereof
: FILE REFERENCE: 0964D
:
: CURRENT APPLICATION NUMBER: US/09/805,550
: CURRENT FILING DATE: 2001-03-13
:
: PRIOR APPLICATION NUMBER: 09/413,574
: PRIOR FILING DATE: 1999-10-06
: PRIOR APPLICATION NUMBER: 60/109,728
: PRIOR FILING DATE: 1998-11-23
:
: NUMBER OF SEQ_ID NOS: 5
: SOFTWARE: FastSeq for Windows Version 3.0
:
: SEQ ID NO 4
:
: LENGTH: 368
:
: TYPE: PRT
:
: ORGANISM: Zea mays
:
: US-09-805-550-4

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Query Match	44.2%	Score 900.5	DB 10	Length 368
Best Local Similarity	49.0%	Pred. No. 6.4e-60		
Matches 197, Conservative	53	Mismatches 117	Indels 35	Gaps 7

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Oy      1 MKLVLKLTKEINFEIEMSPASVADYRIETFGOSTYADQOMLYOKIKDETTE 60
Db      1 MKLVLKLTKEHFEIRQPDITMAVKKNIEELQKDSYWMGOILLFNKVLKDESTLE 60
Oy      61 SNGVAENSELYIMLSKAKAS--SSGASTATTAKAPATLQAPAAEVAPASVARTPTQAPA 119
Db      61 ENKNENEGFLVYMLSKSGTSGTSSSHSNSTPATQAP-----PLEAPQAP--QPVA 114
Oy      120 TAEYAPSPVQOAPARATVAATDDADVQSAASNLVFGNNLEBTOIQIILDMGGGWERD 179
Db      115 PTTSGPEGLPAQAP-----NTHDMAASNLSGRNVDTIINQIMMGSGSDMKOK 164
Oy      180 VVRALRAAYNNPERAIDLYLXSGIPENEAQPVARAAPAGQOTNOQAASPAQPAVALPVQ 239
Db      165 VQRLRAAYNNPERAIVELYLXGIPVYAE-----IAYPLGGGAGNTTDBRAPGEA----- 213
Oy      240 SPASAGFNANPLMLDPQGVDPGSGSNPGVYBAGSAGDALRQLPQFQALLOLVQANPOLI 299
Db      214 -GLSGIPNTAPLDFEPQASNMAG-----GAGGGPDLFLRNPNPQVAYEMVHTNPOLI 266
Oy      300 QPMQLDELKQNPQILKLIQENQAEFLRLVNESPEGGPGNITLQOLAAANVPQILTTPREER 359
Db      267 QPMQLVELSKNPQILRLRIENHDEFLQILNEPREGCGDPLDQPEDEMPHASTVPEED 326
Oy      360 EAIQRLGSGFNRELVEVFACNKEBELNANTLLDHGHEFD 401
Db      327 EALGRLGSGGDRARVTEALACDRNEELNANTLLLEAGGED 368

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RESULT 3  
US-09-815-242-11830  
; Sequence 11830, Application US/09815242

Patent No. US20020061569A1  
 GENERAL INFORMATION:  
 APPLICANT: Haselbeek, Robert  
 APPLICANT: Ohlsen, Karl L.  
 APPLICANT: Zyskind, Judith W.  
 APPLICANT: Wall, Daniel  
 APPLICANT: Trawick, John D.  
 APPLICANT: Carr, Grant J.  
 APPLICANT: Yamamoto, Robert T.  
 APPLICANT: Xu, H. Howard  
 TITLE OF INVENTION: Identification of Essential Genes in  
 TITLE OF INVENTION: Prokaryotes  
 FILE REFERENCE: ELITRA.011A  
 CURRENT APPLICATION NUMBER: US/09/815,742  
 CURRENT FILING DATE: 2001-03-21

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: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625
: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/269,308
: PRIOR FILING DATE: 2001-02-16
: NUMBER OF SEQ ID NOS: 1410
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 11830
: LENGTH: 681
: TYPE: PRT
: ORGANISM: Pseudomonas aeruginosa
: IS-09-815-242-11830

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Query Match	7.28;	Score 146;	DB 10;	Length 681;
Best Local Similarity	23.78;	Pred. No. 0.0022;		
Matches 98;	Conservative 56;	Mismatches 164;	Indels 96;	Gaps 18

QY	16	EASDA---	SVADYKRILETTQOGSTVRADQOMLYGKTIKDETTESUGVAENSPVY	72
Db	296	QALPEALDNGGDNERVIALAQLPRA--	EDYOTYQMGILGRDPLAPD--	PRSGFEMH 351
QY	73	ML-----	SKAKASSGASTATTAKAPATLADQAPAVAPASVARTPTQAPVA	119
Db	352	LRLMLAFRRADADGVPRTPRLKIDGISKATITDPANSPVAGAAASP-	APVATYAPARVVAAPV	410
QY	120	TAEIAPSPSVQAPAPARTVATTDADYV	SOAASMLYFGNNLEOTIOQILDMGGGTER--	177
Db	411	EAPAPAPRAA--PSAPPAVEARVTEAVEEPPAA-----	AEVVDL-----	PWEPPA 454
QY	178	-----	DYVRLRLRAYNNPEKAIIDYIGSPENVEADQPVARAPARAGOTNOQA	226
Db	455	PSLAAPEPEPEPEPEPLAVEAPSVPRAPVAEVAEYETV---	TEALRALPRAVPDQDDEODE	511
QY	227	SP-----	AQPAVALPVQPSBA--SAGPANPNLNFPC-----	GVPB 260
Db	512	PRPADYUEVMDOTLAVLATNTPEEDVYUVEERIPAKPRAGLAEWELTELEPRRLGGGTLA		511
QY	261	G-GSNPGVV-----	PGAGSGALDRLQLPQFALLDLYOANOPILOPMLDQELG	307
Db	572	SIGANCSTLVAADDHHMLHLDPCQ-SALFYAPATQOORJLNDALDNLHGRTLK-LEVTLOKRE		629
QY	308	KONQOILRLIOENQAEFLRLVNESPEGGPGGNILGDLAAAVPOTLVUTVREKRA		361
Db	630	QETP--QOAAARRAEQORAAEASIDADPRLVROLREQFAAVVNDGITEPLEANA		681

RESULT 4  
US-10-109-886-8  
; Sequence 8, Application US/10109886

Patent No. US20020119499A1  
GENERAL INFORMATION:  
APPLICANT: TANABE SEIYAKU CO. LTD.  
APPLICANT: TANIGUCHI, Tomoyasu  
APPLICANT: MIZUKAMI, Junko  
TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND  
FILE REFERENCE: TANIGUCHI-6  
CURRENT APPLICATION NUMBER: US/10/109,886  
CURRENT FILING DATE: 2002-04-01  
PRIOR APPLICATION NUMBER: 09/514,247  
PRIOR FILING DATE: 2000-02-28  
PRIOR APPLICATION NUMBER: PCT/JP98/03734  
PRIOR FILING DATE: 1998-08-24  
PRIOR APPLICATION NUMBER: JP231084/1997  
PRIOR FILING DATE: 1997-08-27  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 8  
LENGTH: 2441  
TYPE: PRT  
ORGANISM: mouse  
US-10-109-886-8

Query Match 6.9%; Score 140; DB 12; Length 2441;  
Best Local Similarity 21.7%; Pred. No. 0.036;  
Matches 92; Conservative 41; Mismatches 159; Indels 132; Gaps 18;

QY 44 QMLTYGKILKDE-TTLESNGVAENSLVIMLSKASSSGASTATYAKAPATIAQAPAP 102  
DB 1857 QHCLQQAQLMRMRMTNTNVPQOQL-----PSPTSAPPTTQOPSTPOTQOP 1907  
QY 103 VAPAS-----VART--PT-----QAPVATETAPPVQQAAPATVATDAD 145  
DB 1908 AQQPSPVNSPAGFPVATOTPTIVSAGKPTNQVPAPPPAPQ---PRAAVAAQIE 1964  
QY 146 VYSQAASNLVFGNNLEQTIOQIILDMGGTWERDVTVRALRAAYNNPERAIDYLSGIEP- 204  
DB 1965 REAQOQOHLIRAN-----INNGMPG-----RDGMGTPEGQMTPVGLNVP 2006  
QY 205 NVAAQPARAPAPAGQQTN-----QQAAPAPAPALPVQSPASGPMANPLNFPQVPS 260  
DB 2007 NOVSPVMSMPGQWQADIPQOQPMGMPRVMSMOAQAAGVGR-----MPN 2056  
QY 261 GGSNGVVPAGSAGDALDRLQ-----POFALLQLVQANPOLI----- 299  
DB 2057 VQPNRSTSP---SALQDLFLTKSPSSPQOQOVLNLIKSNPOLMAAFITQRTAKYVANO 2113  
QY 300 -----QPMQLGLKQNPQ-----ILRLIQENQAEFLRLVNESPEGPGG-NILQGLAA 346  
DB 2114 PGMOPQGLQSGPMOPQPMHQOPLQNLNAMQAGVPRPGVPPQPMGSLNPGQALN 2173  
QY 347 AV-----POTLYTPREBERLQRLGEMGFNRELVEFFACNDELTANTYLDHGHEPD 401  
DB 2174 INMPGHNPMTNMPQYREMYR-----OLQHQOQOQ 2206  
QY 402 DQOQ 405  
DB 2207 QOQO 2210

RESULT 5  
US-10-001-632A-2  
Sequence 2, Application US/10001632A  
Patent No. US20020151492A1  
GENERAL INFORMATION:  
APPLICANT: Conklin, Darrell C.  
APPLICANT: Feldhaus, Andrew L.  
APPLICANT: Holderman, Susan D.  
TITLE OF INVENTION: Testis Specific Protein  
FILE REFERENCE: 99-17C1  
CURRENT APPLICATION NUMBER: US/10/001,632A  
CURRENT FILING DATE: 2002-03-13

PRIOR APPLICATION NUMBER: 60/128,210  
PRIOR FILING DATE: 199-04-07  
PRIOR APPLICATION NUMBER: 60/166,040  
PRIOR FILING DATE: 1999-11-17  
PRIOR APPLICATION NUMBER: 09/541,9190  
PRIOR FILING DATE: 2000-04-03  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 655  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-001-632A-2

Query Match 6.7%; Score 136; DB 12; Length 655;  
Best Local Similarity 21.4%; Pred. No. 0.012;  
Matches 95; Conservative 56; Mismatches 152; Indels 140; Gaps 20;

QY 1 MKNVKTILKGTNEFIEASPDASVAD---VKRIETTGQSTYRADQMLTYGKILKDET 57  
DB 22 IKVTVKTPKD-----KEPFSVTDCTIOQLKBEISORFKAHPDQLVLPAKILKDPD 74  
QY 58 TTLESNGVAENSLVIMLSKASSS---GASTATYAKAPATIAQPA---APVAPASV 109  
DB 75 SLAOCGVARDGLTVHLVLRKORRANGNECPASVPTQGPSPSLQPSIYPADGPPAFSL 134  
QY 110 ARTPTQAPVATA---ETAPSPVQO---AAPAVVATDADVYSQAAS-----NLVFGN 158  
DB 135 GLTLGLSLRLGLAYGFPDQPSILMRQHVSVPEFTQLIDPFTIGLLSNTGLVQVLIDN 194  
QY 159 -NLEOTIOQIILDMGGTWERDVTVRALRAAYNDE---RAIDYL-----YSGI 202  
DB 195 PHMOQLIOHNEIG-----HILNDEIMQULEFLRNPAMQEMIRSDRV 240  
QY 203 PENVEA-----QEVARA-----PAAQOTQQAASAPQAPALPVQ 238  
DB 241 LSNLESIPGGYVNLCTWTDIMDPLNAYVQDFGNGNPFATATTDNATTTTSQP----- 293  
QY 239 PSPASGAPNANPLNLPQGVPSGSGNPGVVPAGSG-----ALDRLQLPQQA 287  
DB 294 -----SRMENCPL-----PNPRTSTHGSNGSGNQGDDQDADPDIRNPPNPLG 338  
QY 288 LLOLVQANPOLIQLMQLGLKQNPQIILIQENQAEFLR-----LVNESPEGPGGNI 340  
DB 339 IIRLYD-----YLQQL-HENPQSLGTYLQGVASALSQSEPPSVNRRVPSPSP----- 385  
QY 341 LQQLAAVPPOTLYTPREBERAIQ 363  
DB 386 -----SSQEPGSGDPLPESVAIK 404

RESULT 6  
US-10-109-886-10  
Sequence 10, Application US/10109886  
Patent No. US20020119499A1  
GENERAL INFORMATION:  
APPLICANT: TANABE SEIYAKU CO. LTD.  
APPLICANT: TANIGUCHI, Tomoyasu  
APPLICANT: MIZUKAMI, Junko  
TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND  
FILE REFERENCE: TANIGUCHI-6  
CURRENT APPLICATION NUMBER: US/10/109,886  
CURRENT FILING DATE: 2002-04-01  
PRIOR APPLICATION NUMBER: 09/514,247  
PRIOR FILING DATE: 2000-02-28  
PRIOR APPLICATION NUMBER: PCT/JP98/03734  
PRIOR FILING DATE: 1998-08-24  
PRIOR APPLICATION NUMBER: JP231084/1997  
PRIOR FILING DATE: 1997-08-27  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 10

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; LENGTH: 2442
; TYPE: PRT
; ORGANISM: human
US-10-109-886-10

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Query Match	6.68;	Score 133.5;	DB 12;	Length 2442;
Best Local Similarity	21.78;	Pred. No. 0.11;		
Matches 87;	Conservative 39;	Mismatches 148;	Indels 127;	Gaps 177;

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QY 34 QGOSTYVADOMLITOGKLIKIDTTEESNGVENSPLVITLMSKAKASSSGASTATTAAP 93
Db 1652 QQQOQHLLQQAOL-----MKRRATANTNTVFOOSL-----PSTSPAPGPTTIOOP 1897
QY 94 ATLAQPAAPVAPA-----ASVART-----PTQAPVATAEETAPPSVOPAPAA 136
Db 1898 STPTQPPAPQPPQPSVMSPPAFPSVARTQPTTIVSTGKPSQVAPARPPAPQ---PPA 1954
QY 137 TVATATDADYISQAASNLVFGNNLEOTIOQIILDMGGGTERDVTYRALPAAVINPERAID 196
Db 1955 AVEARQIEREAOQOOHLKYVN-----INNSMPG-----RTGKGTGGSQMA 1996
QY 197 XLYSGIDE-VNEAQPVARAPAAQOQTN-----QQAASPAQPAVLVOPSPASAGNNANPL 251
Db 1997 PVSILNVRPQVSGPWPMSPPGQMQOAPLPQOQPPPGLPFRPVISMQAQAAVAGPR--- 2052
QY 252 NLFPQVSPSGSNPVGVPGASGALDALROL-----POFQALLDLOVANPOILL----- 299
Db 2053 --MPSVQPPRSPISP-----SALQDLMTLTKSPSSPQOQQOQVNLTKSNQJMAAFIKQ 2103
QY 300 -----QPMQLGELKQNPQ-----ILRLIQENQAEFLR-----LVN 329
Db 2104 RTAKTYVANOPGMPQPGLOSPQMPQOPQPMHQOPSTJONILNMQAGVPRPPVQPOQAMG 2163
QY 330 ESPEG-----GPGGNLIGLAAAVPQTGLVTPPEREARQ 364
Db 2164 LNPQGAULTMNPGH-----PNMASNMPQYREMR 2195

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RESULT 7
US-09-925-299-1544
? Sequence 1544, Application US/09925299
? Patent No. US20020055627A1
? GENERAL INFORMATION:
? APPLICANT: Rosen et al.
? TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
? FILE REFERENCE: PA102
? CURRENT APPLICATION NUMBER: US/09/925,299
? CURRENT FILING DATE: 2001-08-10
? PRIOR APPLICATION NUMBER: PCT/US00/05863
? PRIOR FILING DATE: 2000-03-08
? PRIOR APPLICATION NUMBER: 60/124,270
? PRIOR FILING DATE: 1999-03-12
? NUMBER OF SEQ ID NOS: 1556
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 1544
? LENGTH: 63
? TYPE: PRT
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: SITE
? LOCATION: (5)
? OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
? NAME/KEY: SITE
? LOCATION: (22)
? OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-299-1544

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Query Match	6.3%	Score 129	DB 10	Length 63
Best Local Similarity	46.0%	Pred. No. 0.0015		
Matches 23	Conservative 12	Mismatches 15	Indels 0	Gaps 0
QY	352	LTVPEEATQRLGEMGFNRELVEVFACKKDELRANYLLDGHSHED	401	
	:	:     :	:     :	:

Db 14 IQVTPQEKXAIERLKALGFPEGLVIQAYFACEKNENLANFLLQNFED 63

RESULT 8  
US-10-023-529-47  
; Sequence 47, Application US/10023529  
; Patent No. US20020129388A1  
; GENERAL INFORMATION:

```

APPLICANT: Lees, Robert S.
APPLICANT: Lay, Simon W.
APPLICANT: Arjona, Anibal A.
TITLE OF INVENTION: NOVEL LOW DENSITY LIPOPROTEIN BINDING
TITLE OF INVENTION: PROTEIN AND THEIR USE IN DIAGNOSING AND TREATING
TITLE OF INVENTION: ATHEROSCLEROSIS
FILE REFERENCE: 10797-004001
CURRENT APPLICATION NUMBER: US/10/023,529
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: 09/616,289
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: US 09/517,849
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 08/979,608
PRIOR FILING DATE: 1997-11-26
PRIOR APPLICATION NUMBER: US 60/031,930
PRIOR FILING DATE: 1996-11-27
PRIOR APPLICATION NUMBER: US 60/048,547
PRIOR FILING DATE: 1997-06-03
NUMBER OF SEQ ID NOS: 53
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 47
LENGTH: 550
TYPE: PRT
ORGANISM: Oryctolagus cuniculus
IS-10-023-529-47

```

Query Match	6.3%;	Score 128.5;	DB 12;	Length 550;
Best Local Similarity	26.5%;	Pred. No. 0.033;		
Matches 75;	Conservative 22;	Mismatches 105;	Indels 81;	Gaps 11

OY	16	EASPAASVADYRIIETIQG--OSTYAPDOOMIIYQKIKEDTTELESNGVAENSFLYIM	73
Dd	47	KARP-D-LETRICRMVRNRHGPEPERTTAELTKIOORAVLRVS-----YKGISITRN	96
OY	74	LSKANASSSGAS-----TATTAKAPATLA--QEAAPVAASAARTPTOAPVAT	120
Dd	97	AARVOPPRRGATPPAPRAPRGCPAAAAAAPPPTAPPBPAPPAVAALAAABRAAAAA	156
OY	121	AETAPPS-----YQQAAPATVTAATDADVYSQAASNLVFQNNLEQTIIQLDMGGTW	175
Dd	157	AATAPSPGPGPAGCGKROARAPLAAPPAAPAPPA-----	192
OY	176	ERDTVVRLRAAYNNPERAIDITYLSCIGPENVEAQPARAPAAGOOTNOOASPAPAVAL	235
Dd	193	-APAGPRARRAPPAALVAARESLPPPGQPAPPPQG--QQQPPPPPP-----	236
OY	236	PYQPSF-----ASAGPANPLNLFPGCVSFGSGSNCGVYPGAG	272
Dd	237	PQGPDPPEGGGAARGGPARVSTIREVRYRLTGSS-----GGG	274

RESULT 9  
 US-10-023-523-47  
 ; Sequence 47, Application US/10023523  
 ; Patent No. US20020152485A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lees, Ann M.  
 ; APPLICANT: Lees, Robert S.  
 ; APPLICANT: Law, Simon W.  
 ; APPLICANT: Arjona, Anibal A.  
 ; TITLE OF INVENTION: NOVEL LOW DENSITY LIPOPROTEIN BINDING  
 ; TITLE OF INVENTION: PROTEINS AND THEIR USE IN DIAGNOSING AND  
 ; TITLE OF INVENTION: ATHEROSCLEROSIS TREATING

```
FILE REFERENCE: 10797-004001
; CURRENT APPLICATION NUMBER: US/10/023,523
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US/09/616,289
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 09/517,849
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 08/979,608
; PRIOR FILING DATE: 1997-11-26
; PRIOR APPLICATION NUMBER: US 60/031,930
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 60/048,547
; PRIOR FILING DATE: 1997-06-03
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 550
; TYPE: prt
; ORGANISM: Oryctolagus cuniculus
US-10-023-523-47
```

```
Query Match          6.3%; Score 128.5; DB 12; Length 550;
Best Local Similarity 26.5%; Pred. No. 0.033;
Matches 75; Conservative 22; Mismatches 105; Indels 81; Gaps 11;
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```
OY 16 EASPDASVADVKRIETTCG--OSTYRADQOMLIYOGKILDETTLESNGVAENSPLVIM 73
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 47 KAPPD--LEIRICMVRRRHGPEPERTALEKLIQRAVLRS-----YKSISYRN 96
OY 74 LSKAKSSSSGAS-----TATTAKAPALA--QPAAPVAPPAASVARTPQAVAT 120
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 97 AAVVQPPRRKATPPAPPRADRGPPAAAAAPPAPPPAPVAAAAAPARAPAAAAA 156
OY 121 AETAPPS-----VQPAAPATVATDADVDVQAASNLVFGNNLEQTIOIILDMGGGTW 175
   ||||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 157 AATAPSPSGAOGPPRAQRAPIAAPPPAPAPAA-----192
OY 176 ERDTVVRAALAAVNNPERAIDVYLSGIPENVEAOPVARADAGQOTNOQAASPAQPAVAL 235
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 193 -----APPAGRRAAPPAAAVAAARSPPLPPPPQPPAPQ--QQQPPPPP----- 236
OY 236 PVQSP-----ASAGPNANPLNLFQGVSGSGSNRGVYGCAG 272
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 237 PQQPQPPPEGGAARAGGAPAPVSLREVRYLGGSS-----GAG 274
```

```
RESULT 10
US-09-894-998-47
; Sequence 47, Application US/09894998
; Patent No. US20020090610A1
; GENERAL INFORMATION:
; APPLICANT: Hosken, Nancy Ann
; APPLICANT: Craig H. Day
; APPLICANT: Davin C. Dillon
; APPLICANT: McGowan, Patrick
; APPLICANT: Sleath, Paul R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: 210121.538
; CURRENT APPLICATION NUMBER: US/09/894,998
; CURRENT FILING DATE: 2001-06-28
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 826
; TYPE: prt
; ORGANISM: HSV-2
US-09-894-998-47
```

```
Query Match          6.2%; Score 126.5; DB 10; Length 826;
Best Local Similarity 24.4%; Pred. No. 0.082;
Matches 57; Conservative 14; Mismatches 94; Indels 69; Gaps 7;
```

```
OY 80 SSSGASTATTAKAPATTAAQPAAPVAPPAASVARTPQAVTETAPPSVOPQAAPATAVA 139
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 307 SGSSGCPVAAVAVPRVAVSLPPAAGGCAQARVGEDAAAAEGRT--PPARQPRAAQEPPIV 365
OY 140 ATDD-----ADYVQAASNLVYGNNEQTIOIILDMGGGTWERTDYVRLRA 186
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 366 ISDPPSPRRRPPAGPGLSPVSSSSAQVSSGPG-----GGGILPSSGRRAPRA 414
OY 187 AYNNPERAIDVYSGIPENVEAOPVARAPAGQOTNOQAASPAQPAVALPVQPSF----- 241
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 415 AVARVRS-----PPRAAAAVVVSASA-----DAAGPAPVAVDHAHRAPRSRMT 459
OY 242 -----ASAGPNANPLNLFQGVPSGSGSNRGVYGCAGSGA 275
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 460 QAQDTQAGSLGRAGATDARGSGGPAEG-----GPGVPRGINTTGCAPIHAEGA 509
```

```
RESULT 11
US-09-815-242-5064
; Sequence 5064, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlson, Karl L.
; APPLICANT: zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5064
; LENGTH: 2472
; TYPE: prt
; ORGANISM: pseudomonas aeruginosa
US-09-815-242-5064
```

```
Query Match          6.2%; Score 126.5; DB 10; Length 2472;
Best Local Similarity 21.4%; Pred. No. 0.37;
Matches 102; Conservative 62; Mismatches 160; Indels 153; Gaps 21;
```

```
OY 41 ADOQMLYOGKILDETTLESNGVAENSFLVIMLSKAKASSGASTATTAKAPA-----T 95
   ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
DB 781 AEGEVSAMEG-----SLEIEDISDLDLEVQLPEAAEAAPRAAEALAEARLSIAEV 834
OY 96 LAQPAAPVAPPAASVARTPQAVTETAPPSVOPQAAPATAVATD--ADYVQAASN 153
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 835 MAAPVQPINP-----PAQNVPSLIP--PPADEPVDDEELREVIEPAGE 877
OY 154 LVFGNNLEQTIOIILDMGGGTWERT-----TVNAL-----184
   : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 878 VL-----ETIGKILP---AMKADHDDREALTEVRRAPHTLKGSGRMVAVLIGELAWS 927
```



;; PRIOR FILING DATE: 1997-03-13  
;; PRIOR APPLICATION NUMBER: US 08/942,578  
;; PRIOR FILING DATE: 1997-10-01  
;; PRIOR APPLICATION NUMBER: US 09/025,197  
;; PRIOR FILING DATE: 1998-02-18  
;; PRIOR APPLICATION NUMBER: US 09/056,556  
;; PRIOR FILING DATE: 1998-04-07  
;; PRIOR APPLICATION NUMBER: US 09/223,040  
;; PRIOR FILING DATE: 1998-12-30  
;; NUMBER OF SEQ ID NOS: 46  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 22  
;; LENGTH: 600  
;; TYPE: PRF  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Description of Artificial Sequence: trt-fusion  
US-09-287-849-22

Query Match 6.1%; Score 123.5; DB 10; Length 600;  
Best Local Similarity 21.0%; Pred. No. 0.089;  
Matches 93; Conservative 50; Mismatches 183; Indels 117; Gaps 17;

QY 30 IETTGOSTYRADQOMLIYQCKIKDETTLESNGVAEN--SFLVIMLSKAKASSSGASTA 87  
DB 85 MSVAGQAEHLTAQVRRAAAAYETAIGLTPPVIAENRAELMLITNLIGQTPALAV 144  
QY 88 TTAKAPATLQAPAPVAPASVARTPTQAPVATETAAPPVSQPOAPAA---TVAATDD 143  
DB 145 NEAEYGEKMDADAAAMGYAATAT-----ATATLTFEEAPEMTSAGLLEQAAVEE 198  
QY 144 ADVYSQAASNLVFGNNLEQTLQITLD--MG-----GGTWER----- 177  
DB 199 AS--DTAAANQLM--NNVPQALQLOAOPTOGTTPSSKLGKMTVSPHRSPISNVMANN 255  
QY 178 -----DLYVRALRAAYNNPERAIDL-----YSGIPENVEA 208  
DB 256 HMSMTNSGVSTNTLTSSMLKGFAPAAAAQAVTAQNGVRRMSSLSGSSGLGGVAA 315  
QY 209 QPVARAPAAQ-----QTNQOASPPAQPAVALPVQSPASAGPNANPLMLFPQGVPSG 261  
DB 316 N-LGRRAVSGLSVPOQMAAANQAVTPAARALPLTSLTSAERGP-----GQMLG 364  
QY 262 GSNFVVPGAGSGALDALRLQFQFALLQLVQANPQILQPMLOELGQNP----- 311  
DB 365 GLPVGQMGARAGGSLGVLRV-----PPPYVW--PHSPAAGKLDVPDAVINTTCN 413  
QY 312 --QILRLIQENQAEFLALVNSPEGEGGNILGOLAAAVPQTLVTPEREAIQRLBGMG 369  
DB 414 YGVVAALNMTDPGAAAOFNASVPA--QSYLRNFLAAPPORAAMAQ---LQAVPGA 467  
QY 370 FNRRLVLEFPACNKDEELTANY 392  
DB 468 QYIGLVESVAGSCNNYTELMTINY 490

RESULT 15  
US-09-801-368-108

;; Sequence 108, Application US/09801368

;; Patent No. US20020128250A1

;; GENERAL INFORMATION:

;; APPLICANT: Busby, Robert

;; APPLICANT: Cali, Brian

;; APPLICANT: Hecht, Peter

;; APPLICANT: Holtzman, Doug

;; APPLICANT: Madden, Kevin

;; APPLICANT: Maxon, Mary

;; APPLICANT: Milne, Todd

;; APPLICANT: No. US20020128250A1man, Thea

;; APPLICANT: Royer, John

;; APPLICANT: Salama, Sofie

;; APPLICANT: Sherman, Amit

;; APPLICANT: Silva, Jeff

;; APPLICANT: Summers, Eric  
;; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi  
;; FILE REFERENCE: 109272.147  
;; CURRENT APPLICATION NUMBER: US/09/801,368  
;; CURRENT FILING DATE: 2001-03-07  
;; PRIOR APPLICATION NUMBER: US 09/487,558  
;; PRIOR FILING DATE: 2000-01-19  
;; PRIOR APPLICATION NUMBER: US 60/160,587  
;; PRIOR FILING DATE: 1999-10-20  
;; NUMBER OF SEQ ID NOS: 440  
;; SOFTWARE: PatentIn version 3.0  
;; SEQ ID NO 108  
;; LENGTH: 1367  
;; TYPE: PRF  
;; ORGANISM: Saccharomyces cerevisiae  
US-09-801-368-108

Query Match 6.0%; Score 122.5; DB 10; Length 1367;  
Best Local Similarity 20.5%; Pred. No. 0.33;  
Matches 58; Conservative 33; Mismatches 119; Indels 73; Gaps 6;

QY 10 GTNFEIASPASVADYVRIETTGOSTYRADQOMLIYQCKIKDETTLESNGVAENSE 69  
DB 1098 GTNSAGETTSKSCSKRYTITVTPCSTGTGETTETATLTVTTAVTTVTESSTGT----- 1152  
QY 70 LVIMLSKAKASSSGASTATTAKAPATLAQAPAPVAPASV----- 109  
DB 1153 -----NSAGKTTTGTGTFKSVPTTYVTLAPSAVTPATNAVPTTTTECSAATNAGET 1207  
QY 110 -----ARTPTQAPATATAPPSVQPOAPAPATYAADDDADYVQAASNLVFGNNLEQTI 164  
DB 1208 TSVCSAKTIVSASAGENTATPTVTAIPTVITTESSVGTNSAGETTTG----- 1260  
QY 165 QOILDMGGTWERDPTVVALRAAYNNPERAIDLYSGIP-----ENVEAQVAPAPAAQ 219  
DB 1261 -----YTTKSIPTTITLITLPGSGNKNETVATATNPISIK 1297  
QY 220 QTNQOASPPAQPAVALPVQSPASAGP--NANPLMLFPQGVPS 260  
DB 1298 TTSQLATATASASVA-PVVTSPSLGLQASASGSAVATVSVPS 1339

Search completed: November 4, 2002, 02:05:28  
Job time : 17.0026 secs

